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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/671,783	09/27/2000	JEAN-PIERRE LARDY		6965	
75	90 05/18/2004	EXAM	EXAMINER		
CHRIS L HOI	- -	GORT, E	GORT, ELAINE L		
	EED HADLEY & MCCI HATTAN PLAZA	ART UNIT	PAPER NUMBER		
NEW YORK, NY 10005-1413			3627		
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Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
1	•	09/671,783	LARDY ET AL.				
Frank W	Office Action Summary	Examiner	Art Unit				
		Elaine Gort	3627				
	The MAILING DATE of this communicat	ion appears on the cover sheet v	vith the correspondence addre	ss			
Period for	•	DED. V. 10. 05T TO EVDIDE	40NTU(0) 500M				
THE N - Extension after S - If the s - If NO - Failum Any re	PRTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA sions of time may be available under the provisions of 37 kt (6) MONTHS from the mailing date of this communicate of the specified above is less than thirty (30) date of the provisions of the maximum statutor to reply within the set or extended period for reply will, by the provision by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	TION. CFR 1.136(a). In no event, however, may a ation. ys, a reply within the statutory minimum of the y period will apply and will expire SIX (6) MO by statute, cause the application to become the statute.	a reply be timely filed irty (30) days will be considered timely. DNTHS from the mailing date of this comm ABANDONED (35 U.S.C. § 133).	unication.			
Status							
1)	Responsive to communication(s) filed o	n <u>27 Fe<i>bruary 2004</i>.</u>					
		☐ This action is non-final.					
3)□	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice t	ınder <i>Ex parte Quayle</i> , 1935 C.	D. 11, 453 O.G. 213.				
Dispositio	on of Claims						
4)⊠	Claim(s) <u>1-29</u> is/are pending in the appl	ication.					
•	4a) Of the above claim(s) <u>24-27</u> is/are withdrawn from consideration.						
5)	Claim(s) is/are allowed.						
6)⊠	Claim(s) <u>1-23,28 and 29</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8)[Claim(s) are subject to restriction	and/or election requirement.					
Application	on Papers						
9)[] 7	The specification is objected to by the Ex	xaminer.					
10) 🔲 🗆	☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the	correction is required if the drawin	g(s) is objected to. See 37 CFR	1.121(d).			
11) 🔲 🗆	he oath or declaration is objected to by	the Examiner. Note the attache	ed Office Action or form PTO-	152.			
Priority u	nder 35 U.S.C. § 119						
12) 🗌 <i>A</i>	Acknowledgment is made of a claim for	foreign priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
_	☐ All b)☐ Some * c)☐ None of:		(-) (-)				
	1. Certified copies of the priority doc	uments have been received.					
;	2. Certified copies of the priority doc	cuments have been received in	Application No				
,	Copies of the certified copies of the copies of the certified copies of the certified copies of the certified copies.	ne priority documents have bee	n received in this National Sta	ige			
	application from the International	, , , ,					
* S	ee the attached detailed Office action for	r a list of the certified copies no	t received.				
Attachment	(a)						
_	of References Cited (PTO-892)	4) Thterview	Summary (PTO-413)				
2) D Notice	of Draftsperson's Patent Drawing Review (PTO-	948) Paper No	o(s)/Mail Date				
	ation Disclosure Statement(s) (PTO-1449 or PTC No(s)/Mail Date	0/SB/08) 5) ☐ Notice of 6) ☐ Other: _	Informal Patent Application (PTO-15	2)			



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DETAILED ACTION

Election/Restrictions

1. This application contains claims 24-27 drawn to an invention nonelected with traverse in Paper No. 7. A complete reply to the final rejection must include cancelation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.

Claim Rejections - 35 USC § 101

- 2. 35 U.S.C. 101 reads as follows:
 - Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.
- 3. Claims 1-23, 28 and 29 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Current office policy regarding method claims disclosed as requiring a computer but not claiming the use of a computer is to consider the claimed subject matter as non-statutory for failing to fall within the technological arts. Claims must be tied to a technological art. One way to overcome this rejection is to tying the method to a computer.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 1-23, 28 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Irving et al. (US Patent 5,991,743) in view of Kealhofer (US Patent 6,078,903).

lrving et al. discloses the claimed device but is silent regarding the default rating being in the form of a probability of default. Kealhofer discloses that it is known in the art to provide a probability of default to provide individuals with quantitative information to predict successful payment and the expected default rate (column 3, lines 53+). It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the method for determining a company's default rating of Irving et al. with the probability format of Kealhofer, in order to provide the rating in a numeric probability format.

Irving et al. discloses a method for determining a company's likelihood of no default utilizing an equation "substantially" in the form as claimed (Examiner broadly construes the word substantially to mean "relating to" as found in the Merriam Webster's Collegiate Dictionary 10th Edition, 1996) including:

determining a factor reflecting both price and price volatility of shares in the company (system tracks share price over time, column 2, line 56; column 1, line 43+ and column 2, lines 40+ discuss proactive monitoring over time),

debt per share (system tracks balance sheet figures which inherently include debt per share including both long and short term debt, column 7 line 5),

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and expected debt recovery fraction and deviation of the expected debt recovery (system tracks historical risk ratings including predetermined risk categories which incorporate expected debt recovery, column 3, line 29);

and determines the company's rating for default based on the above factors (such as when the system creates a report including a risk rating).

Regarding the calculation of the standard deviation of price, debt per share, and expected debt recovery, it is notoriously old and well known in the art of probability forecasting to use the standard deviation which indicates the way in which a probability function is centered around its mean, to indicates a measure of dispersion and variability and it would have been obvious to utilize the variation of price and expected debt recovery to indicate the stability of these factors that directly relate or indicate the company's strength.

Response to Arguments

6. Applicant's arguments filed 2/27/04 have been fully considered but they are not persuasive.

Applicant has overcome the 101 rejection regarding performance of a concrete, useful or tangible result, but has not overcome the 101 technological art requirement rejection.

Applicant has argued that Irving does not disclose using stock prices in determining risk exposure. Examiner contends that Irving does disclose the use of stock prices in column 2 line 56+ while it also discusses in column 1 lines 46+ that risk

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factors include financial health which among other factors can be indicated by share price and volatility of share price.

Applicant has argued that Irving does not disclose using "debt recovery fraction" in determining risk exposure. Examiner contends that Irving does disclose the use of "debt recovery fractions" when the system tracks historical risk ratings including predetermined risk categories as predetermined risk inherently incorporates what amount of debt is expected to be recovered. This is discussed in column 3, line 29.

Applicant has argued that Irving does not teach volatility of share price.

Examiner took official notice that it is old and well known in the art of financial forecasting to use standard deviations for financial factors to indicate variability of the factors which directly related to or indicate a company's strength. For example if there is high volatility in share price this could indicate instability which can be construed to indicate higher risk. High volatility of expected debt recovery and debt would also indicate instability which also can be construed to indicate higher risk.

Applicant has further argued that the combination of Irving and Kealhofer do not teach using equations in "substantially" the forms as provided in the claim. Examiner contends that the usage of the term "substantially" broadens the claim as this term can be interpreted to mean "relating to" (as found in the Merriam Webster's Collegiate Dictionary 10th Edition, 1996) and thus the analysis and calculations performed by Irving et al., which are not disclosed in detail, incorporate factors which "relate to" those in the claimed equation and thus the combination of Irving and Kealhofer disclose the use of

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equations "substantially" in the form as claimed. See also column 4, lines 15+ which discusses formulas.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elaine Gort whose telephone number is (703)308-6391. The examiner can normally be reached on Monday through Thursday from 7:00 am to 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Olszewski, can be reached at (703)308-5183. The fax phone

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number for the organization where this application or processing is assigned is (703)872-9327.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-1113.

EG

May 17, 2004

ROBERT P. OLSZEWSKI SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3600